

Goat Anti-Human Hemoglobin PAb, HRP-Conjugation

Cat. No. CPBTT-30937GH **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Goat

Product Overview Goat polyclonal to human hemoglobin (HRP).

Antigen Description

The human alpha globin gene cluster located on chromosome 16 spans about 30 kb and includes seven loci: 5'- zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 - alpha-1 - theta - 3'. The alpha-2 (HBA2) and alpha-1 (HBA1) coding sequences are identical. These genes differ slightly over the 5' untranslated regions and the introns, but they differ significantly over the 3' untranslated regions. Two alpha chains plus two beta chains constitute HbA, which in normal adult life comprises about 97% of the total hemoglobin; alpha chains combine with delta chains to constitute HbA-2, which with HbF (fetal hemoglobin) makes up the remaining 3% of adult hemoglobin. Alpha thalassemias result from deletions of each of the alpha genes as well as deletions of both HBA2 and HBA1; some nondeletion alpha thalassemias have also been reported.

Immunogen

Goats were immunized with purified human hemoglobin. After multiple immunizations in Freund's adjuvant the goats were bled and serum collected. The antibodies were isolated by immunoaffinity chromatography and conjugated with horseradish peroxidase

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Host animal	Goat
Conjugation	HRP
Target	Hemoglobin
Form	Liquid
Storage Buffer	50 mM HEPES, 0.1 M Sodium Chloride with 0.2% BSA, 0.01% Thimerosal
Concentration	1 mg/ml
Storage	Keep as concentrated solution, aliquot and store at 4°C.
Note	For Research and Manufacturing Only; Not for Use in Diagnostic Applications. The affinity purified antibody forms a single line of precipitation with human adult hemoglobin A1, A2, F and S by immunoelectrophoresis. There is no reaction with human serum proteins. Suggested starting dilutions are 1:10,0001:50,000 but optimal working dilutions should be determined for your particular assay conditions."

GENE INFORMATION

Gene Name	HBA1 hemoglobin, alpha 1 [Homo sapiens]
Official Symbol	HBA1
Synonyms	HBA1; hemoglobin, alpha 1; HBH; CD31; hemoglobin subunit alpha; alpha-globin; alpha-1 globin; alpha-1-globin; alpha one globin; hemoglobin alpha chain; hemoglobin alpha-1 chain; hemoglobin alpha 1 globin chain; MGC126895; MGC126897; Hemoglobin alpha 2; 142200; 3047; 3043; Hemoglobin; 3039; HSGGL1; HBB; HBG1; HBGR; CD113t-C; 141800; CD113tC; P68871; 141900; Q3MIF5; HBGA; PRO2979;

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P69891; CD113t C	
Gene ID	3039
mRNA Refseq	NM_000558
Protein Refseq	NP_000549
MIM	141800
UniProt ID	P69905
Chromosome Location	16p13.3
Pathway	African trypanosomiasis; Malaria; Metabolism; O ₂ /CO ₂ exchange in erythrocytes; Selenium Pathway; Uptake of Carbon Dioxide and Release of Oxygen by Erythrocytes

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